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educating the engineer of 2020 is grounded by the observations questions and conclusions presented in the best selling book the engineer of 2020 visions of engineering in the new century this new book offers recommendations on how to enrich and broaden engineering education so graduates are better prepared to work in a constantly changing global economy it notes the importance of improving recruitment and retention of students and making the learning experience more meaningful to them it also discusses the value of considering changes in engineering education in the broader context of enhancing the status of the engineering profession and improving the public understanding of engineering although certain basics of engineering will not change in the future the explosion of knowledge the global economy and the way engineers work

will reflect an ongoing evolution if the united states is to maintain its economic leadership and be able to sustain its share of high technology jobs it must prepare for this wave of change

the national research council s panel on engineering interactions with society was formed to examine the functioning of the engineering profession in the context of and in relation to american society this document presents the findings of the panel the panel s inquiry was twofold first it examined the impact that engineering and technology development has had on the nation including the impact on societal demands values and perceptions on engineering next the panel attempted to assess the structure and development of the engineering profession and the adaptability of the profession in meeting current and future national needs chapters in the document deal with 1 the evolution of american engineering 2 the present era managing change in the information age 3 engineering and social dynamics 4 maintaining flexibility in an age of stress and rapid change and 5 conclusions and recommendations appendices include 23 references and a 16 item bibliography along with an article prepared by arthur l donovan entitled engineering in an increasingly complex society historical perspectives on education practice and adaptation in american engineering tw

the international battle against internet pirates has been heating up increasingly law enforcement is paying attention to book piracy as ebook publishing gains an ever larger market share with this threat to their health and even survival publishers and authors must act much like the music film and software giants that have waged war against pirates for the past two decades now the battle against internet piracy opens a discussion on what happens to the victims of piracy drawing from a large number of interviews from writers self publishers mainstream publishers researchers students admitted pirates free speech advocates attorneys and local and international law enforcement officials the text speaks to such issues as why pirates have acted and how they feel about it the conflict over constitutional rights and piracy the current laws surrounding internet piracy examples of cases taken against some pirates alternatives to piracy personal experiences of being ripped off the ways piracy affects different industries and how they ve responded author gini graham scott prepares readers to arm themselves against these modern perils by learning about copyright infringement and how to prevent combat and end book piracy allworth press an imprint of skyhorse publishing publishes a broad range of books on the visual and performing arts with emphasis on the business of art our titles cover subjects such as graphic design theater branding fine art photography interior design writing acting film how to start careers business and legal forms business practices and more while we don t aspire to publish a new york times bestseller or a national bestseller we are deeply committed to quality books that help creative professionals succeed and thrive we often publish in areas overlooked by other publishers and welcome the author whose expertise can help our audience of readers

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collection development the process used by librarians to choose items for a particular library or section of a library can be time consuming and difficult due to the many factors that must be taken into consideration library collection development for professional programs trends and best practices addresses the challenging task of collection development in modern academic libraries which is largely learned on the job this publication contains practical advice and innovative strategies essential for current collection development librarians and future librarians seeking guidance in this complex position

for the past few years the corps has been working on what is known as the restructured upper mississippi river illinois waterway feasibility study the heart of which is a multibillion dollar proposal to double the length of up to a dozen locks on the river the research council first reviewed the feasibility study in 2001 during controversies over the accuracy of models being used by the corps to justify lock expansion based on increased demand for barge transportation more than 100 million tons of cargo half of it grain destined for international markets the other half goods such as construction materials coal and chemicals are shipped along the navigation system each year the locks which along with dams allow barges to traverse uneven river depths were originally designed for tows of barges up to 600 feet long but the length of a typical tow has increased forcing the corps to look for ways to relieve congestion the book finds the u s army corps of engineers has made good progress in broadening its proposed plan for navigation

improvements on the upper mississippi river illinois waterway system to give greater consideration to ecological restoration however the plan still does not provide sufficient economic justification for expanding locks on the rivers because of flaws in the models the corps used to predict demand for barge transportation little attention is paid to inexpensive nonstructural navigation improvements that could help better manage existing levels of barge traffic the revised plan has been usefully expanded to include many creative and potentially useful ecosystem restoration measures these measures however should be more firmly grounded in river science principles and more broadly consider ways the river s ecology might affect or be affected by navigation recreation and other uses

this updated version of its internationally popular predecessor provides an introductory problem solved text for understanding fundamental concepts of electronic devices their design and their circuitry providing an interface with pspice the most widely used program in electronics new key features include a new chapter presenting the basics of switched mode power supplies thirty one new examples and twenty three ps solved problems

in this basic introduction the author aims to help engineers and scientists to understand and use excel in their fields the book is interactive and designed to be used in conjunction with a computer to provide a hands on learning experience

offering an in depth exploration of ajax technologies this book is ideal for programmers with or without a programming background it provides readers with a detailed code rich walkthrough on writing ajax programs and introduces key ajax techniques and program models

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